

The schematic diagram illustrates a programmable current source circuit. A central current source, labeled 18, is connected to a network of switches (10, 11, 12, 13) and diodes (14, 15, 16, 17). This network is controlled by a digital input signal V_{nom} (9). The current source is also connected to a resistor (19) and a feedback loop. The feedback loop includes an operational amplifier (20) and a resistor (21). The output of the feedback loop is connected to a digital-to-analog converter (22), which is then connected to a resistor (23). The output of the feedback loop is also connected to a resistor (24). The output of the feedback loop is connected to a resistor (25). The output of the feedback loop is connected to a resistor (26). The output of the feedback loop is connected to a resistor (27). The output of the feedback loop is connected to a resistor (28). The output of the feedback loop is connected to a resistor (29). The output of the feedback loop is connected to a resistor (30).

Fig.1

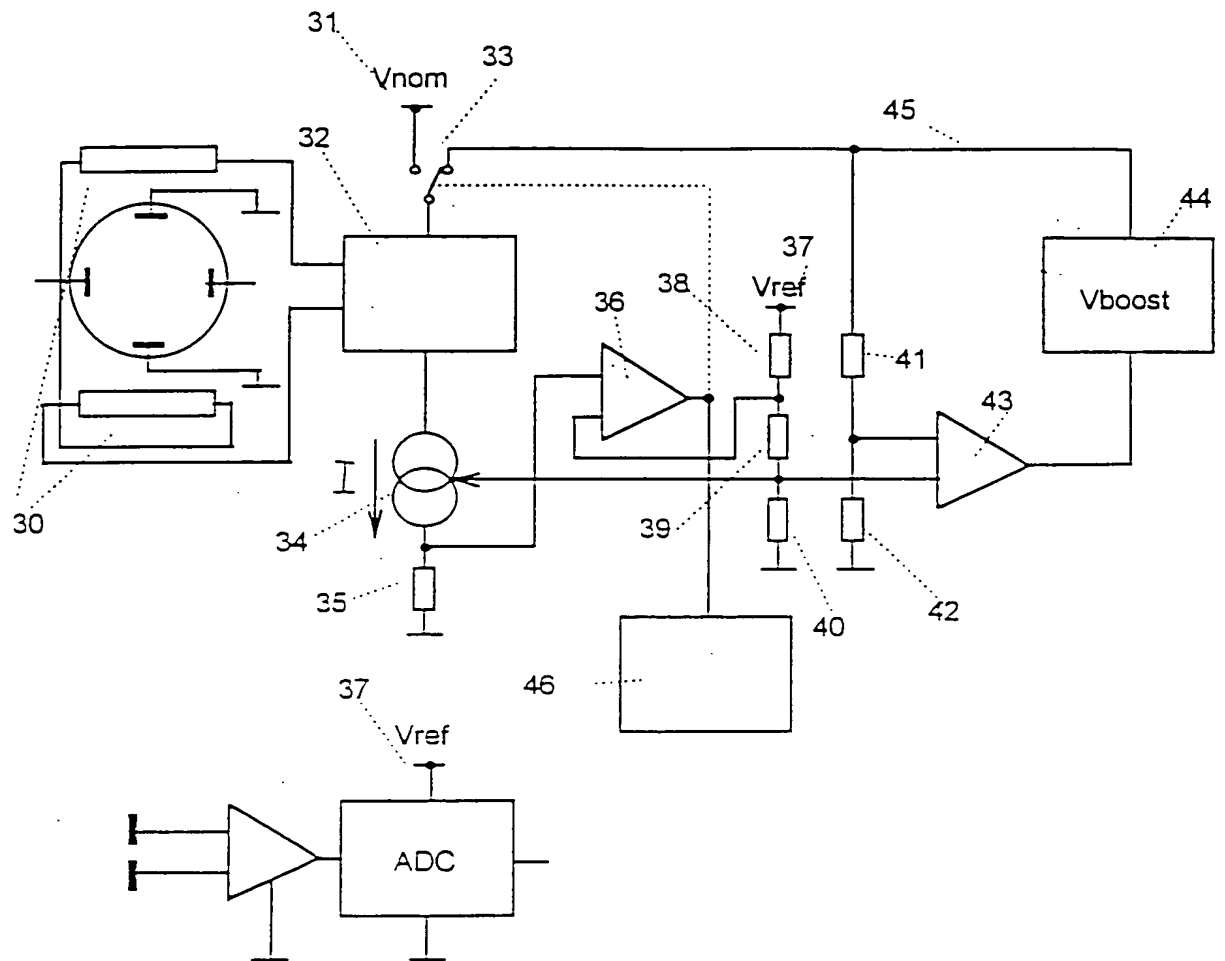


Fig. 2

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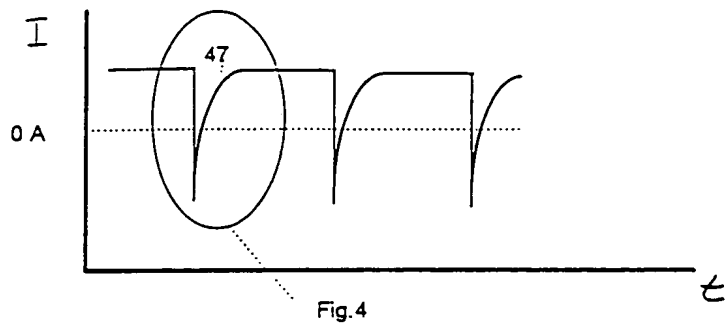


Fig.4

Fig.3

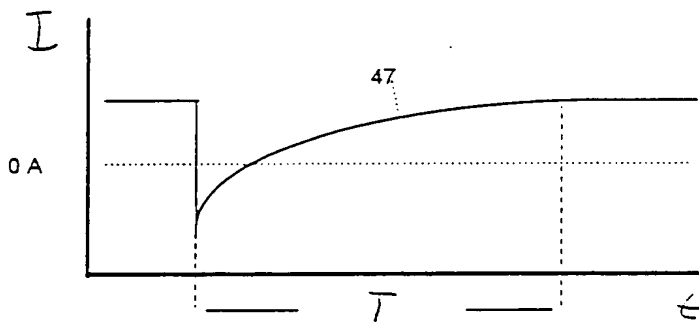


Fig.4

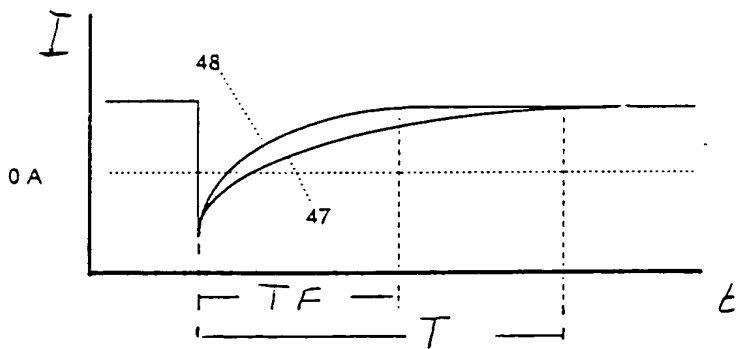


Fig 5